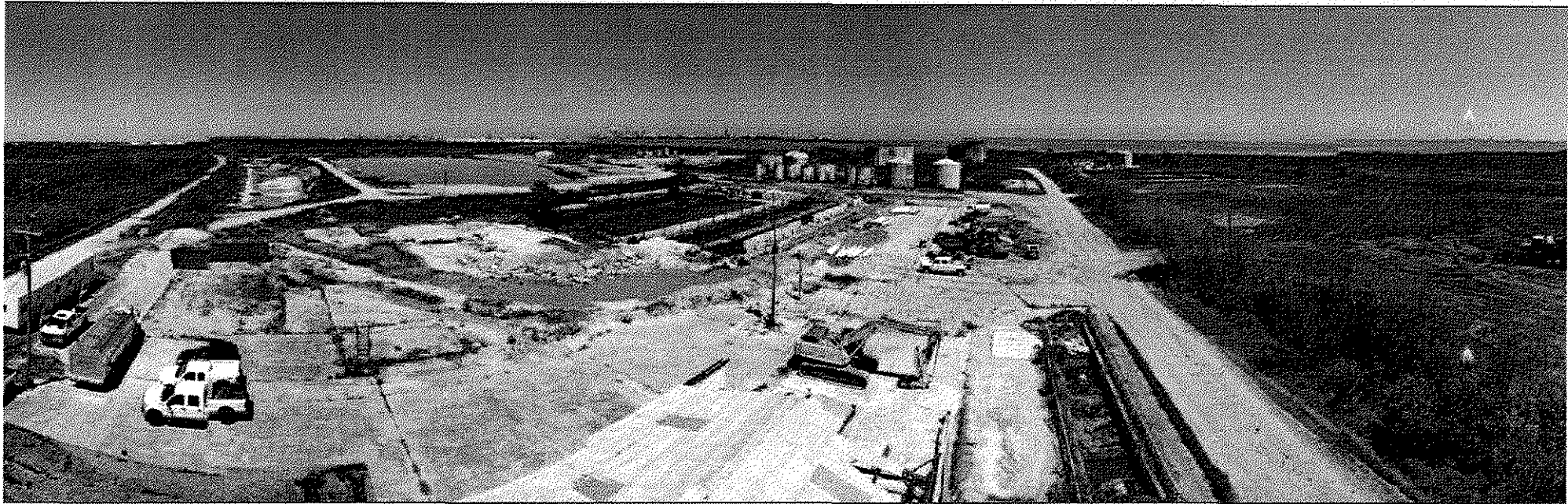
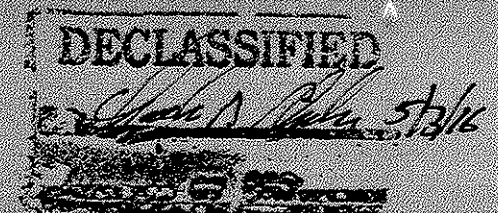


MALONE SERVICE COMPANY SUPERFUND SITE, TEXAS CITY, TEXAS  
**MALONE COOPERATING PARTIES – PHASE TWO RD/RA ACTIVITIES**



**Weekly Phase Two RD/RA Report  
Prepared for EPA and TCEQ**



(December 7 – December 13, 2015)

Draft, for discussion purposes only

Project Navigator, Ltd.  
10497 Town & Country Way, Suite 830  
Houston, TX 77024



9639068

## Project Coordination/Construction Management Activities

### Accomplishments (week of 12/7)

- Continued injection of contact stormwater under EPA ER
- Operated WDW138 overnight throughout the week and WDW73 during working hours
- Began liner install in 4 acres of Phase 1 RCRA Cell

### Materials Summary

	This Week	Total
Approximate Contaminated Soil Excavated (CY)	0	48,840
Solidified Waste (CY)	0	44,453

### Field Activities

#### Water Management

##### • 4.5 inches of rain this weekend (Sat-Sun)

- Pump contact water to APIs
- Pump non-contact water to Swan Lake

**Injection Wells** – 670,000 gallons of Contact water injection through both wells under EPA ER.

WDW-138: 75-78 gpm with highest injection pressure of 989 psi.

WDW-73: 73-75 gpm with highest injection pressure of 1211.

#### Solidification

- None

#### Contaminated Soil Excavation

- None

#### Landfill

- Continued disk and drying of clay
- Completed final grading a smooth roll of 4 acres in Phase 1.
- 4 acres area passed moisture/density tests

- GCL and 80 mil HDPE installed on 4 acre area levee slopes (76,300 sq. ft.)
- ENTACT provides daily QA/QC Reports
- 4 acre floor ready for liner once air drying is complete
- Liner install on 4 acre area will resume once floor is dry
- Subgrade disk/drying of remaining 7 acres of Phase One cell will follow once area is dry

#### Pre-Treatment System

- System will be used as needed during high pH or increased sediment conditions

#### Other

- Daily air monitoring and water truck usage as needed for dust suppression
- EnSafe (IQAT) onsite to view liner install
- Held on-site RCRA Cell QA/QC Meeting

## Project Coordination/Construction Management Activities

---

### Upcoming Project Activities

- Continue to operate injection wells through EPA ER and support EPA's efforts to approve ESD for operation of injection wells.
- Support EPA efforts to hold Public Meeting in Texas City in Dec/Jan timeframe. Fact sheets and posters provided to EPA.
- Work with EPA to finalize approval of Petition to Modify Timing and Amount of Performance Guarantee.

### Upcoming Field Activities

- Continue injection of contact water under EPA ER
- Remove non-contact water from 4.5 inches of rain over the weekend.
- Continue liner install in 4 acre area after air drying complete
- Drying activities in remaining 7 acres of Phase 1 RCRA Cell
- Complete final grading in 7 acres of Phase 1 RCRA Cell
- Complete density and moisture testing on last lift of clay in 7 acres area of Phase 1 RCRA Cell
- Backfill Cemetery Area excavation backfill once dry
- Temporary spray cover field pilot activities
- Site Visits by IQAT to view Earthwork and Liner installation.

**Nuclear Density Gauge used by third party geotechnical testing firm to ensure density and moisture results meet the design specifications of the placed clay.**



# Dozers cutting final grade and compactors smooth rolling in Phase 1 RCRA Cell



# ESI liner crew installing Geosynthetic Clay Layer (GCL) on side slope of Phase 1 RCRA Cell.



## ESI liner crew installing 80 mil HDPE on top of Geosynthetic Clay Layer (GCL)



**ESI worker cleaning 80 mil HDPE before fusion weld completed.**



## ESI crew installing 80 mil HDPE over GCL on east slope of Phase 1 RCRA Cell.



## Phase 1 four acre area: View of floor and liner progress on slopes.

